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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-05-02-20** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP,
Address	:	Shettyhalli Sub Division, BBMP, Banglore.
Project Name	:	Construction of 1st Floor to Samudhaya Bhavana at Abbigere for Yoga Kendra in Ward No12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/329/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-20 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-05-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.18	–
2	Finess by Air permeablity method (m^2/kg,Min)	289.7	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-02-20** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Banglore.
Address	:	Shettyhalli Sub Division, BBMP, Banglore.
Project Name	:	Construction of 1st Floor to Samudhaya Bhavana at Abbigere for Yoga Kendra in Ward No12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/329/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-20 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	185	185	1.2	98.8	90-100
3	20 mm	6988	7173	47.8	52.2	30-70
4	10 mm	5147	12320	82.1	17.9	10-35
5	4.75 mm	2175	14495	96.6	3.4	0-5
6	Pan	505	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-02-20** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Banglore.
Address	:	Shettyhalli Sub Division, BBMP, Banglore.
Project Name	:	Construction of 1st Floor to Samudhaya Bhavana at Abbigere for Yoga Kendra in Ward No12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer Reference	:	BBMP/EE/DD/WO/329/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-20 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	211	211	4.2	95.8	90-100
3	10 mm	3021	3232	64.6	35.4	25-55
4	4.75 mm	1547	4779	95.6	4.4	0-10
5	Pan	221	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-05-02-20** **Date: 04-05-18**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Banglore.

Address : Shettyhalli Sub Division, BBMP, Banglore.

Project Name : Construction of 1st Floor to Samudhaya Bhavana at Abbigere for Yoga Kendra in Ward No12 Shettyhalli, Shettyhalli Sub Division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/329/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-05-18

Sample ID No : 2018-05-02-20 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 02-05-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	10	10	1.0	99.0	90-100	90-100	90-100	95-100
3	2.36 mm	175	185	18.5	81.5	60-95	75-100	85-100	95-100
4	1.18 mm	144	329	32.9	67.1	30-70	55-90	75-100	90-100
5	600 micron	202	531	53.1	46.9	15-34	35-59	60-79	80-100
6	300 micron	278	809	80.9	19.1	5-20	8-30	12-40	15-50
7	150 micron	149	958	95.8	4.2	0-10	0-10	0-10	0-15
8	Pan	42	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-05-02-20** **Date: 04-05-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Banglore.
Address	:	Shettyhalli Sub Division, BBMP, Banglore.
Project Name	:	Construction of 1st Floor to Samudhaya Bhavana at Abbigere for Yoga Kendra in Ward No12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/329/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-20 /04
Sample Type	:	Kamadhenu
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	03-05-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Kamadhenu	Fe500	8	0.392	528	652	22.0%	Satisfactory	Satisfactory
2	Kamadhenu	Fe500	10	0.62	533	669	21.0%	Satisfactory	Satisfactory
3	Kamadhenu	Fe500	12	0.883	548	672	21.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-17-06** **Date: 19/05/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Banglore.

Address : Shettyhalli Sub Division, BBMP, Banglore.

Project Name : Construction of 1st Floor to Samudhaya Bhavana at Abbigere for Yoga Kendra in Ward No12 Shettyhalli, Shettyhalli Sub Division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/329/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-05-18

Sample ID No : 2018-05-17-06 /01

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	12/05/2018	19/05/2018	149.88 X 150.47 X 150.63	22552	8.201	410.5	18.2	18.2
2	Lintel Concrete	M20	12/05/2018	19/05/2018	150.42 X 150.47 X 150.32	22634	8.169	405.1	17.9	
3	Lintel Concrete	M20	12/05/2018	19/05/2018	150.47 X 150.98 X 151.44	22718	8.144	418.0	18.4	

AE

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-05-17-06

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Banglore. **Date: 09/06/2018**

Address : Shettyhalli Sub Division, BBMP, Banglore.

Project Name : Construction of 1st Floor to Samudhaya Bhavana at Abbigere for Yoga Kendra in Ward No12 Shettyhalli, Shettyhalli Sub Division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/329/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-05-18

Sample ID No : 2018-05-17-06 /02

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	12/05/2018	09/06/2018	149.68 X 151.22 X 150.75	22635	8.196	516.1	22.8	23.2
2	Lintel Concrete	M20	12/05/2018	09/06/2018	149.66 X 151.27 X 150.47	22639	8.204	523.0	23.1	
3	Lintel Concrete	M20	12/05/2018	09/06/2018	150.66 X 151.59 X 150.74	22838	8.194	541.3	23.7	

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